TENT COOPERATION TREES

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference	FOR FURTHER see Not	tification of Transmi	ttal of International	Search Report
YL03013PCT	ACTION (Form )	PCT/ISA/220) as wel	l as, where applicab	le, item 5 below.
International application No.	International filing date (day/mon	th/year) (Earlie	est) Priority Date (da	ty/month/year)
PCT/KR03/01892	16 SEPTEMBER 2003 (16.09	).2003) 28 OC	TOBER 2002 (28	.10.2002)
Applicant				• • • • • • • • • • • • • • • • • • • •
KIM, Seung-Hyun				
This International search report has been prep to Article 18. A copy is being transmitted to the		g Authority and is tra	ansmitted to the app	licant according
This international search report consists of a t	otal of 4 sheets.			,
It is also accompanied by a cop	y of each prior art document cited	n this report.		
Basis of the report     a. With regard to the language, the integrated language in which it was filed, unless			ternational application	on in the
the international search was care Authority (Rule 23.1(b)).	ried out on the basis of a translation	of the international	application furnishe	d to this
b. With regard to any nucleotide and/ was carried out on the basis of the s		in the international a	pplication, the inter-	national search
contained in the international a	pplication in written form.	•	•	
filed together with the internati	onal application in computer reada	ble form.		
furnished subsequently to this	Authority in written form.			_
furnished subsequently to this	Authority in computer readable for	<b>n.</b> .		
the statement that the subseque international application as file	nlty furnished written sequence lis d has been furnished.	ting does not go beyo	and the disclosure in	the
the statement that the informati furnished.	on recorded in computer readable f	orm is identical to th	e written sequence l	isting has been
2. Certain claims were found un	searchable (See Box I).			
3. Unity of invention is lacking (	•	•	. "	
4. With regard to the title,				
X the text is approved as submitted	d by the applicant.			
the text has been established by	this Authority to read as follows:			
	•		·	
		,		·
5. With regard to the abstract,	-			
X the text is approved as submitted	l by the applicant.			
	cording to Rule 38.2(b), by this Au	thority as it appears	in Box III. The appl	licant may.
	of mailing of this international sear			• 1
6. The figure of the <b>drawing</b> to be publi	shed with the abstract is Figure No	. 10		
X as suggested by the applicant.	•		None of the f	igures
because the applicant failed to s	uggest a figure.	·		-
because this figure better charac	terizes the invention.			
<del></del>				



International application No. PCT/KR03/01892

## CLASSIFICATION OF SUBJECT MATTER

#### IPC7 A01C 1/06

According to International Patent Classification (IPC) or to both national classification and IPC

## FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A01C 1/06, A01C 1/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for invention since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

C.	DOCUMENTS	CONSIDERED	TO BE	RELEVANT	

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	US 6,088,957 A (Massoud Kazemzadeh)	1-5
	18 JULY 2000	
	See claims 1-2, See page 2, fig.1	
Α	KR 1999-0004227 U ( CEOE, WON YOUNG)	1-5
•	25 JANUARY 1999	
	See claims 1-5	
<b>A</b> .	KR 1995-0001845 B1 (LEE,DUK HUN)	1-5
	04 MARCH 1995	
	See page 1, line 33-37, See page 2, line 1-7.	
Α	JP 13-190107 A (SUMIKA AGROTECH CO LTD)	1-5
	17 JULY 2001	] •
	See abstract	
Α	JP 10-225207 A (TAKI SUBO CO LTD)	1-5
2.1	25 AUGUST 1998	
	See page 4, line 33-35	
	F.G. ,	
•	y .	

X	Further documents are listed in the continuation of Box C.
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See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

24 DECEMBER 2003 (24.12.2003)

Date of mailing of the international search report

24 DECEMBER 2003 (24.12.2003)

Name and mailing address of the ISA/KR



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Facsimile No. 82-42-472-7140

Authorized officer

HWANG, Dong Yul

Telephone No. 82-42-481-5635







International application No.

PCT/KR03/01892

ategory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 08-070628 A (SUMITOMO CHEM CO LTD)  19 MARCH 1996  See page 3, example	, 1-5
Α	US 6,058,649 A (Shabtai Bittman) 9 MAY 2000 See the whole document	1-5
<b>A</b> ·	KR 1997-0001087 B1(LEE, DUK HUN) 28 JANUARY 1997 See claims 1-7	1-5
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# INTERNATIO. L SEARCH REPORT



International application No. PCT/KR03/01892

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6,088,957 A	18-07-2000	none	
KR 1999-0004227 U	25-01-1999	none	
KR 1995-0001845 B1	04-03-1995	none	
JP 13-190107 A	17-07-2001	none	
JP 10-225207 A	25-08-1998	none	
JP 08-070628 A	19-03-1996	none	
JS 6,058,649 A	09-05-2000	none	
ŔR 1997-0001087 B1	28-01-1997	none	